

Notice of Allowability

Application No.

09/044,030

Examiner

Ljiljana (Lil) V. Ciric

Applicant(s)

UEDA ET AL.

Art Unit

3753

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the reply filed on 7 June 2006 and the telephonic interview of 21 August 2006.
2. ☒ The allowed claim(s) is/are 13, 14 and 16.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20060821.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



**LJILJANA CIRIC
PRIMARY EXAMINER**

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney William L. Brooks, Registration No. 34,129, on August 21, 2006.

2. The application has been amended as follows:

In the claims:

Claim 13, line 4: Immediately following "to be cooled", insert --, said upper surface of said heat receiving plate being flat--.

Claim 13, line 5: Immediately preceding "upper surface", insert --flat--.

Claim 13, line 9: Delete "toward an end thereof".

Claim 13, line 11: Immediately preceding "parallel heat radiating plates", insert --plurality of--.

Claim 13, line 12: Immediately preceding "the heat receiving plate", insert --to--.

Claim 13, line 13: Immediately following "two adjacent", insert --ones of--. Also, immediately preceding "parallel heat radiating plates", insert --plurality of--.

Claim 13, line 14: Delete "having an air inlet and an air outlet".

Claim 13, line 15: Immediately following "plates" at the beginning of the line, insert --, said ventilation duct having an air inlet and an air outlet--.

Claim 13, line 17: Delete "said heat pipe" and replace with --each of said plurality of heat pipes--.

Claim 13, line 20: Delete ", and" and replace with a period (.).

Claim 13, lines 21-24: Delete "wherein each of the plurality of heat pipes is located at a slant with respect to said heat receiving plate so that cooling air directly collides not only with upstream heat pipe end

Art Unit: 3753

portions, but also with downstream heat pipe end portions, thereby improving heat radiation from the plurality of heat pipes.”

3. The following is an examiner’s statement of reasons for allowance:

The prior art of record, while disclosing a plurality of heat pipes with both a plurality of parallel heat radiating plates or fins and a heat receiving plate attached to the heat pipes, with the parallel heat radiating plates or fins being disposed inside a ventilation duct with forced air circulation therethrough and with the heat receiving plate being disposed entirely outside of the ventilation duct, does not disclose the plurality of heat pipes being fixed or attached to an upper surface of the heat receiving plate which is substantially flat or planar. The prior art of record discloses the plurality of heat pipes being fixed or attached within grooves or channels of the heat receiving plate and not to the flat or planar top surface of the heat receiving plate.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ljiljana (Lil) V. Ciric whose telephone number is 571-272-4909. The examiner works a flexible work schedule and can normally be reached on most weekdays between 11 am and 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Eric Keasel can be reached on 571-272-4929. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3753

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Ljiljana (Lil) V. Ciric
Primary Examiner
Art Unit 3753